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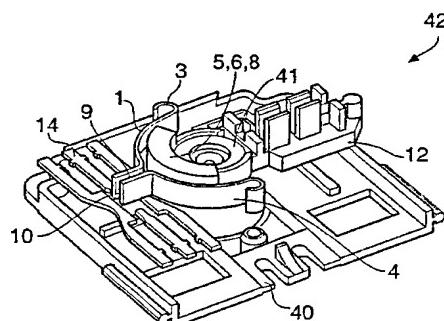
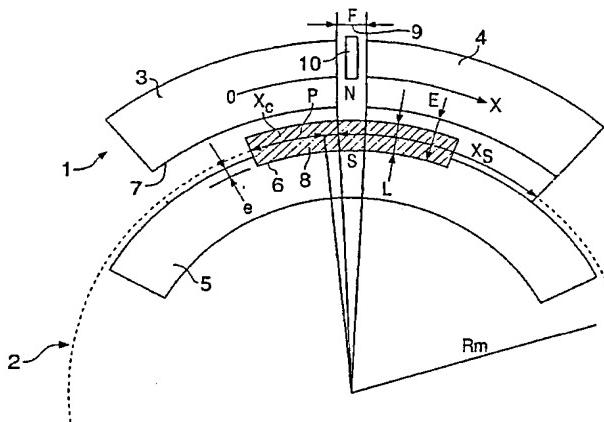
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(54) Title: FUEL LEVEL SENSOR USING ROTATING ANGLE SENSOR ATTACHED TO FLOAT ON TOTATING ARM



**(57) Abstract:** A fuel level sensor having a magnetic position sensor connected to an arm for attachment to a float, wherein the magnetic position sensor comprises a stator and a movable part, the stator having two soft magnetic pieces defining an air gap, which contains a magnetoresistive probe for measuring the variation in induction in the gap, the moveable part comprising a yoke of soft magnetic material displaceable parallel to the magnetic pieces of the stator, and a magnet partly embedded in a cavity in the yoke facing the stator, the poles of the magnet being polarized perpendicularly to direction of movement of the moveable part relative to the stator.



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